



## Indiana State Department of Health Genomics and Newborn Screening Program

### **GNBS TECHNIQUE REFERENCES**

### **HEARING SCREEN**

### HEALTHY NEWBORN: After six (6) hours of age AND prior to discharge

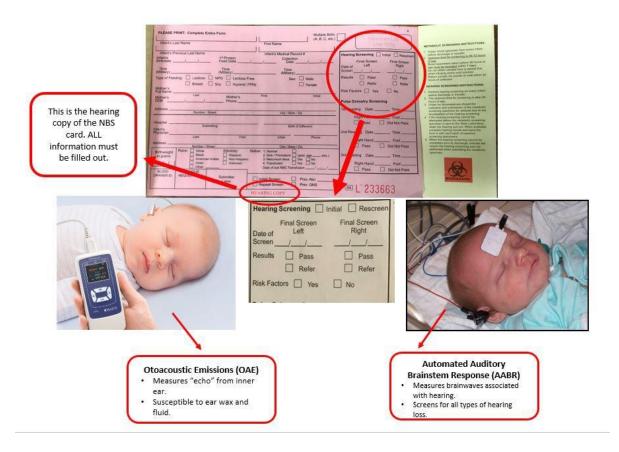
Screening may occur twice (max) for inpatients.

#### SPECIAL CASES: Prior to Transfer/Discharge

- Preterm babies who stay in nursery greater than five (5) days should have screen when medically stable, but prior to discharge.
- Babies who reside greater than five (5) days in NICU should have screen as recommended by the department.
- Inpatient testing should be made available to long stay babies.

#### **PROCEDURE**

- Screening may occur twice (max) as inpatients.
- Both ears screened each time.
- Both ears must pass on the same screen.
- > If both ears do not pass either screen, refer immediately for diagnostic hearing evaluation.



Submit results to ISDH GNBS via pink slip (hearing copy) when not completed with the heelstick or use RR form when heelstick refused or when pink sleep is unavailable.





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### **GNBS TECHNIQUE REFERENCES**

### **PULSE OXIMETRY**

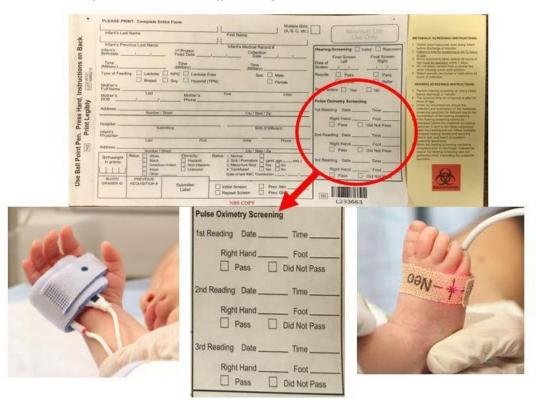
#### HEALTHY NEWBORN: Between 24-48 hours of birth

- o MUST be after 24 hours due to:
  - Earlier screening leads to false positives
  - Must allow time for systemic oxygen levels to stabilize
- SHOULD be before 48 hours because
  - Ductus arteriosus closes after this
  - Interventions can be made

SPECIAL CASES: Prior to Transfer/Discharge, CCHD Detected, NICU, Initial Screen Next Month, RR, Prenatally/Postnatally Diagnosed with CCHD, Did not Pass, and Referred for Additional Follow-Up.

#### **PROCEDURE**

- Infant should be awake, calm and warm
- Right hand and one of the infant's feet
- ➤ PASS = 95% of higher FAIL = Less than 95% OR a difference greater than 3% in both right hand and foot (if above 95% and a difference greater than 3%, this is a FAIL)



Please refer to your GNBS: Pulse Oximetry quick reference card. Submit results to ISDH GNBS via pink slip (hearing copy) when not completed with the heelstick or use RR form when heelstick refused or when pink sleep is unavailable. Ensure your facility is reporting to the IBDPR. See IBDPR list of reportable conditions.





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## **GNBS TECHNIQUE REFERENCES**

## **HEELSTICK**

Healthy Newborn: 24 hours after birth

o Prior to discharge/transfer

Special Cases: Transfusion and NICU

o Pre-transfusion:

Collect before transfusion

o Post-transfusion:

Collect prior to 6 days after birth

 Collect final specimen 2-4 months post last transfusion

o <2,000 grams

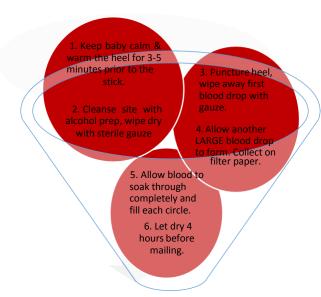
24 hours after birth

6 days

14 days

30 days

Monthly thereafter until discharge or 3 months of age, whichever comes first.



# **Quality Heelstick Procedure**

